

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims:

Claims 1-5 (Cancelled)

Claim 6 (Currently amended): A method for regenerating catalytic activity of a catalyst comprising the step of:

contacting the catalyst with one of water, a dilute acid and a dilute hydrogen peroxide solution,

wherein the catalyst is based on a support selected from the group consisting of titanium dioxide or and hydrous titanium dioxide, wherein the support is coated with gold particles and wherein the catalyst has been deactivated by oxidation of unsaturated hydrocarbons in a gas phase.

Claim 7 (Previously presented): The method of Claim 6, wherein the catalyst comprises a catalyst produced by a deposition-precipitation method.

Claim 8 (Previously presented): The method of Claim 6, wherein the water comprises steam under pressure.

Claim 9 (Previously presented): The method of Claim 6, wherein the dilute hydrogen peroxide solution has a concentration less than or equal to 10 wt.% based on the total weight of the catalyst.

Claim 10 (Previously presented): The regenerated catalyst produced by the method of Claim 6.

Claim 11 (Previously presented): In a process for oxidation of an unsaturated hydrocarbon with molecular oxygen in the presence of hydrogen in the gas phase,

the improvement comprising performing the oxidation in the presence of the regenerated catalyst of Claim 10.

Claim 12 (Cancelled)

Claim 13 (Previously presented): The method of Claim 6, wherein the dilute acid has a pH of 5.5 to 6.0.